

WHAT IS CLAIMED IS:

1. A method of producing a light emitting display comprising:
providing a substrate;
providing a first addressing electrode on the substrate;
controllably depositing an organic material over the first addressing electrode in a first location by delivering a mixture of a compressed fluid solvent and the organic material toward the first addressing electrode, the mixture being contained under a first condition prior to delivery toward the first addressing electrode;

controllably depositing the organic material over the first addressing electrode in a second location, the second location being distinct from the first location, by delivering the mixture of the compressed fluid solvent and the organic material toward the first addressing electrode, the mixture being contained under a second condition prior to delivery toward the first addressing electrode, the second condition being distinct from the first condition; and

providing a second addressing electrode over the organic material in the first and the second location, wherein the organic material associated with the first condition and the second condition becomes free of the compressed fluid solvent prior to reaching the first addressing electrode.

2. The method according to Claim 1, wherein the first condition includes maintaining the mixture of the compressed fluid solvent and the organic material under a first pressure and the second condition includes maintaining the mixture of the compressed fluid solvent and the organic material under a second pressure.

3. The method according to Claim 2, wherein controllably depositing the organic material of the mixture contained under the first condition includes delivering the mixture from the first pressure to a solvent evaporating pressure.

4. The method according to Claim 2, wherein controllably depositing the organic material of the mixture contained under the second condition includes delivering the mixture from the second pressure to a solvent evaporating pressure.

5. The method according to Claim 1, wherein the first condition includes maintaining the mixture of the compressed fluid solvent and the organic material under a first temperature and the second condition includes maintaining the mixture of the compressed fluid solvent and the organic material under a second temperature.

6. The method according to Claim 5, wherein controllably depositing the organic material of the mixture contained under the first condition includes delivering the mixture from the first temperature to a solvent evaporating temperature.

7. The method according to Claim 5, wherein controllably depositing the organic material of the mixture contained under the second condition includes delivering the mixture from the second temperature to a solvent evaporating temperature.

8. The method according to Claim 1, further comprising:
controllably depositing the organic material over the first addressing electrode by delivering the mixture of the compressed fluid solvent and the organic material toward the first addressing electrode in a third location, the mixture being contained under a third condition prior to delivery toward the first addressing electrode, the third condition being distinct from the first condition and second condition and the third location being distinct from the first and the second location.

9. The method according to Claim 1, wherein controllably depositing the organic material of the mixture contained under the first condition

over the first addressing electrode includes positioning a mask over the first addressing electrode prior to the organic material reaching the first addressing electrode.

10. The method according to Claim 9, wherein controllably depositing the organic material over the first addressing electrode includes charging the organic material and oppositely charging the substrate.

11. The method according to Claim 1, wherein controllably depositing the organic material of the mixture contained under the second condition over the first addressing electrode includes positioning a second mask over the first addressing electrode prior to the organic material reaching the first addressing electrode.

12. The method according to Claim 11, wherein controllably depositing the organic material over the first addressing electrode includes charging the organic material and oppositely charging the substrate.

13. The method according to Claim 1, wherein controllably depositing the organic material of the mixture contained under the first condition over the first addressing electrode includes discretely delivering the organic material through a discharge device over a predetermined location of the first addressing electrode.

14. The method according to Claim 1, wherein controllably depositing the organic material of the mixture contained under the second condition over the first addressing electrode includes discretely delivering the organic material through a discharge device over a predetermined location of the first addressing electrode.

15. A method of producing a light emitting display comprising:
providing a substrate;

providing a first addressing electrode on the substrate;
controllably depositing a first organic material over the first addressing electrode by delivering a mixture of a compressed fluid solvent and the first organic material toward the first addressing electrode in a first location, the mixture being contained under a first condition prior to delivery toward the first addressing electrode;

controllably depositing a second organic material over the first addressing electrode by delivering a mixture of a compressed fluid solvent and the second organic material toward the first addressing electrode in a second location, the second location being distinct from the first location, the mixture being contained under a second condition prior to delivery toward the first addressing electrode; and

providing a second addressing electrode over the first and second organic materials in the first and the second location, wherein the first and second organic materials become free of the compressed fluid solvent prior to reaching the first addressing electrode.

16. The method according to Claim 15, wherein the second condition is distinct when compared to the first condition.

17. The method according to Claim 15, wherein controllably depositing the first organic material includes varying the first condition.

18. The method according to Claim 15, wherein controllably depositing the second organic material includes varying the second condition.

19. The method according to Claim 15, wherein the first condition includes maintaining the mixture of the compressed fluid solvent and the organic material under a first pressure and the second condition includes maintaining the mixture of the compressed fluid solvent and the organic material under a second pressure.

20. The method according to Claim 19, wherein controllably depositing the first organic material includes delivering the mixture from the first pressure to a solvent evaporating pressure.

21. The method according to Claim 19, wherein controllably depositing the second organic material includes delivering the mixture from the second pressure to a solvent evaporating pressure.

22. An apparatus for making a light emitting display comprising:
a source of a mixture of a compressed fluid solvent and an organic material;
a discharge device positioned in fluid communication with the source of the mixture of the compressed fluid and the organic material; and
a condition controlling device positioned in fluid communication between the source and the discharge device.

23. The apparatus according to Claim 22, the source being maintained under a first condition, further comprising:
a second source of a mixture of a compressed fluid solvent and a second organic material, the second source being maintained under a second condition;
a second discharge device positioned in fluid communication with the second source; and
a second condition controlling device positioned in fluid communication between the second source and the second discharge device.

24. The apparatus according to Claim 23, wherein the source and the second source are connected in fluid communication to a compressed fluid source.

25. The apparatus according to Claim 22, portions of the discharge device defining a delivery path, further comprising:

a substrate retaining device positioned spaced apart from the discharge device in the delivery path.

26. The apparatus according to Claim 22, portions of the discharge device defining a delivery path, further comprising:

an actuating mechanism moveably positioned in the delivery path.

27. The apparatus according to Claim 22, wherein the condition controlling device includes a valve.

28. The apparatus according to Claim 22, wherein the condition controlling device includes a piston.

29. The apparatus according to Claim 22, wherein the condition controlling device includes a heating element.

30. The apparatus according to Claim 22, wherein the condition controlling device includes a cooling element.

31. The apparatus according to Claim 22, further comprising a pressure monitoring device.

32. The apparatus according to Claim 22, further comprising a temperature monitoring device.

33. The apparatus according to Claim 22, the discharge device having an outlet, wherein the outlet of the discharge device is at least partially positioned in fluid communication with an environmentally controlled chamber.

34. An apparatus for making a light emitting display comprising:

a first source of a mixture of a compressed fluid solvent and an organic material, the first source being maintained under a first condition;

a first discharge device in fluid communication with the first source of the mixture of the compressed fluid and the organic material;

a second source of the mixture of the compressed fluid solvent and the organic material, the second source being maintained under a second condition;

a first condition controlling device positioned in fluid communication between the first source and the second source; and

a second discharge device in fluid communication with the second source of the mixture of the compressed fluid and the organic material.

35. An apparatus for making a light emitting display comprising:

a source of a mixture of a compressed fluid solvent and an organic material;

a first formulation reservoir positioned in fluid communication with the source, the first formulation reservoir being maintained under a first condition;

a first discharge device positioned in fluid communication with the first formulation reservoir;

a first condition controlling device positioned in fluid communication between the source and the first formulation reservoir;

a second formulation reservoir positioned in fluid communication with the source, the second formulation reservoir being maintained under a second condition;

a second discharge device positioned in fluid communication with the second formulation reservoir; and

a second condition controlling device positioned in fluid communication between the source and the second formulation reservoir.

36. A method of producing a light emitting display comprising:
providing a substrate;
providing a first addressing electrode on the substrate;
controllably depositing an organic nanomorphoric material over the first addressing electrode; and
providing a second addressing electrode over the organic nanomorphoric material.

37. The method according to Claim 36, the organic nanomorphoric material being a first organic nanomorphoric material, further comprising:
controllably depositing a second organic nanomorphoric material over the first addressing electrode prior to providing the second addressing electrode in a location distinct from a location of the first organic nanomorphoric material.

38. The method according to Claim 36, wherein controllably depositing an organic nanomorphoric material over the first addressing electrode includes delivering a mixture of a compressed fluid solvent and an organic material toward the first addressing electrode, the mixture being contained under a first condition prior to delivery toward the first addressing electrode, the organic material associated with the first condition becoming free of the compressed fluid solvent prior to reaching the first addressing electrode.

39. The method according to Claim 36, the organic nanomorphoric material being a first organic nanomorphoric material, further comprising:
controllably depositing a second organic nanomorphoric material over the first addressing electrode prior to providing the second addressing electrode in a location distinct from a location of the first organic nanomorphoric material.

40. The method according to Claim 39, wherein controllably depositing the first organic nanomorphous material over the first addressing electrode includes delivering a mixture of a compressed fluid solvent and an organic material toward the first addressing electrode, the mixture being contained under a first condition prior to delivery toward the first addressing electrode, the organic material associated with the first condition becoming free of the compressed fluid solvent prior to reaching the first addressing electrode.

41. The method according to Claim 40, wherein controllably depositing the second organic nanomorphous material over the first addressing electrode includes delivering the mixture of the compressed fluid solvent and the organic material toward the first addressing electrode, the mixture being contained under a second condition prior to delivery toward the first addressing electrode, the second condition being distinct from the first condition, wherein the organic material associated with the second condition becomes free of the compressed fluid solvent prior to reaching the first addressing electrode.